# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

**Name of work:** Estimate for Road Development and Asphalting Works at Singapura Paradise Roads Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | Estimate Cost Rs. | | | | | 1999000.00 | |
| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.1/ PWD SR 2014-15** | Cum | | | | | | | |
| | **Desiltation of Road Side drains** | | | | | | | | |
| | Main Road | | 2 | 122.00 | 0.45 | 0.35 | 115.29 | 38.43 | |
| | | | 2 | 85.00 | 0.45 | 0.35 | 26.78 | | |
| | Cross Roads | | 2x3 | 110.00 | 0.45 | 0.35 | 103.95 | | |
| | **Berm Cutting** | | | | | | | | |
| | Main Road | | 2 | 122.00 | 1.00 | 0.25 | 183.00 | 61.00 | |
| | | | 2 | 85.00 | 1.00 | 0.25 | 42.50 | | |
| | Cross Roads | | 2x3 | 110.00 | 1.00 | 0.25 | 165.00 | | |
| | | | | | | | **636.52** | 75.60 | **48121.00** |
| | Basic Rate | 70.00 | | | | | 437.66 | | 33087 |
| | Area Weightage @ 8% | 5.60 | | | | | | | |
| | **Total** | **75.60** | | | | | | | |
| 2 | KSRRB 300-2. Earth work excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.2 / PWD SR 2014-15** | Cum | | | | | | | |
| | Main Road | | 1 | 122.00 | 5.50 | 0.15 | 100.65 | | |
| | | | 1 | 85.00 | 5.50 | 0.15 | 70.13 | | 31621.96 |
| | Cross Roads | | 3 | 110.00 | 5.00 | 0.15 | 247.50 | | |
| | | | | | | | **418.28** | 105.84 | **44270.00** |
| | Basic Rate | 98.00 | | 78 | | | | | |
| | Area Weightage @8% | 7.84 | | 5.6 | | | | 75.6 | |
| | **Total** | **105.84** | | 75.6 | | | | | |
| 3 | Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15** | Sqm | | | | | | | |
| | Main Road | | 2 | 60.00 | | 1.35 | 162.00 | | |
| | | | 2 | 45.00 | | 1.35 | 121.50 | | |
| | Cross Roads | | 2x3 | 50.00 | | 1.35 | 405.00 | | |
| | | | | | | | **688.50** | 58.32 | **40153.00** |
| | Basic Rate | 54.00 | | | | | | | |
| | Area Weightage @ 8% | 4.32 | | | | | | | |
| | **Total** | **58.32** | | | | | | | |
| 4 | Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15** | Sqm | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | Qty Vide Item No. 2 | | | | **688.50** | 75.60 | **52051.00** |
| | Basic Rate | 70.00 | | | | | | | |
| | Area Weightage @ 8% | 5.60 | | | | | | | |
| | **Total** | **75.60** | | | | | | | |
| 5 | Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **P. 154 / I. 20.18 PWD SR - 2014-15** | Cum | | | | | | | |
| | UGD and Water Line Cutting Portion | | | | | | | | |
| | Main Road | | 1 | 122.00 | 1.00 | 0.15 | 18.30 | | |
| | | | 1 | 85.00 | 1.00 | 0.15 | 12.75 | | |
| | Cross Roads | | 3 | 110.00 | 1.00 | 0.15 | 49.50 | | |
| | Road Surface | | | | | | | | |
| | Main Road | | 1 | 122.00 | 5.50 | 0.15 | 100.65 | | |
| | | | 1 | 85.00 | 5.50 | 0.15 | 70.13 | | |
| | Cross Roads | | 3 | 110.00 | 5.00 | 0.15 | 247.50 | | |
| | | | | | | | **498.83** | 1438.56 | **717590.00** |
| | Basic Rate | 1332.00 | | | | | | | |
| | Area Weightage @ 8% | 106.56 | | | | | | | |
| | **Total** | **1438.56** | | | | | | | |
| 6 | KSRRB 500-1.1 : **Cleaning the existing WBM** road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **P. 157 / I. 21.1 PWDSR 2014-15** | Sqm | | | | | | | |
| | Main Road | | 1 | 122.00 | 5.50 | | 671.00 | | |
| | | | 1 | 85.00 | 5.50 | | 467.50 | | |
| | Cross Roads | | 3 | 110.00 | 5.00 | | 1650.00 | | |
| | | | | | | | **2788.50** | 12.20 | **34031.00** |
| | Basic Rate | 11.30 | | | | | | | |
| | Area Weightage @ 8% | 0.90 | | | | | | | |
| | **Total** | **12.20** | | | | | | | |
| 7 | KSRRB M500-6: **Providing and applying primer coat for surfaces of medium porosity** like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.5 / PWD SR 2014-15** | Sqm | | | | | | | |
| | | | Qty Vide Item No. 6 | | | | 2788.50 | | |
| | | | | | | | **2788.50** | 74.52 | **207799.00** |
| | Basic Rate | 69.00 | | | | | | | |
| | Area Weightage @ 8% | 5.52 | | | | | | | |
| | **Total** | **74.52** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 8 | KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 508 complete in all respects as per specifications. **using 100-120 TPH capacity H.M.P with sensor paver grading II (25-30mm) with 5% CRMB-55 grade, No. 160 / Item No. 21.21.2 / PWD SR 2014-15** | Cum | | | | | | | |
| | Main Road | | 1 | 122.00 | 5.50 | 0.025 | 16.78 | | |
| | | | 1 | 85.00 | 5.50 | 0.025 | 11.69 | | |
| | Cross Roads | | 3 | 110.00 | 5.00 | 0.025 | 41.25 | | |
| | | | | | | | **69.71** | 11070.00 | **771717.00** |
| | Basic Rate | 10250.00 | | | | | | | |
| | Area Weightage @ 8% | 820.00 | | | | | | | |
| | **Total** | **11070.00** | | | | | | | |
| 9 | Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km | Cum | | | | | | | |
| | | | Vide Item No. 1+2 | | | | **843.83** | 73.57 | **62080.00** |
| | Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12 | 5.12 | | | | | | | |
| | Add loading and unloading charges Vide item no.17.1 P.no.130 | 63.00 | | | | | | | |
| | | **68.12** | | | | | | | |
| | Area Weightage @ 8% | 5.45 | | | | | | | |
| | **Total** | **73.57** | | | | | | | |
| 10 | Sub Total | | | | | | 19501 | 29.96 | **1977812.00** |
| 11 | Third Party Inspection Charges @ 1% | | | | | | 19561.29 | | **19778.00** |
| 12 | Miscesallaneous Charges | L/S | | | | | 29368. | | **1410.00** |
| | | | | | | | | Total | **1999000.00** |

**(Rupees Ninteen Lakhs Ninety Nine Thousand Only)**

Technical Sanction for Rs. 19.90L. Nineteen Lakhs Ninety Thousand only.

Administrative Approval Accorded for Rs. 19.99 lakh is accorded under head P-2415 registered as CE No. 171 Dt: 12.02.15 Subject to Conditions contained in enclosed memo No. 369 Dr. 12/02/15

AE/JE TA SE (BTP) CE (BTP)

**CERTIFICATE**

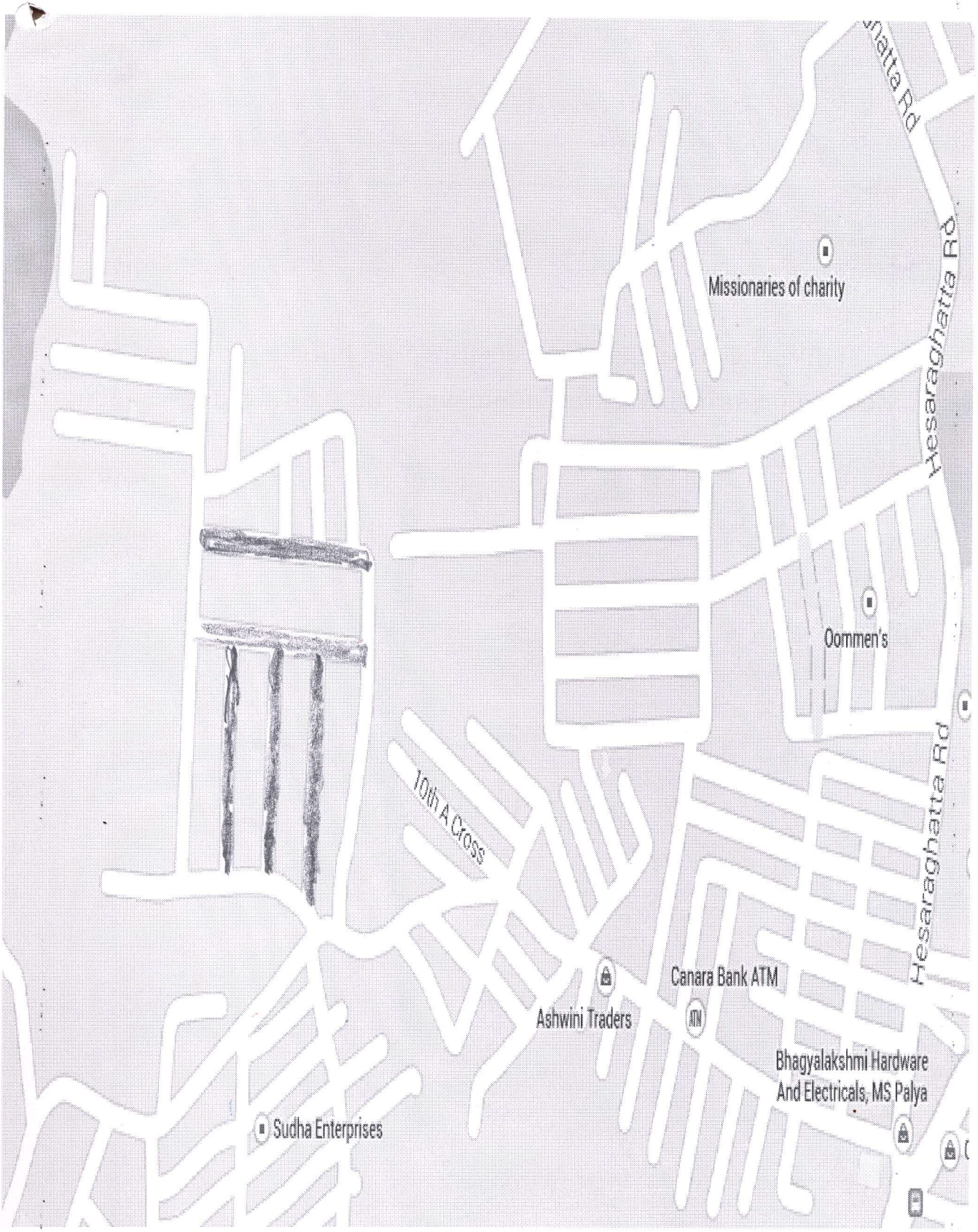
1. The work spot has been inspected and the work is found necessary.
2. This estimate is prepared as per PWD SR of 2014-15.
3. This work included under T and F Grants 2014-15.
4. The provisions were made in this estimate are necessary and adequate.
5. This works come under B.B.M.P. limits.

Asst. / Jr. Engineer

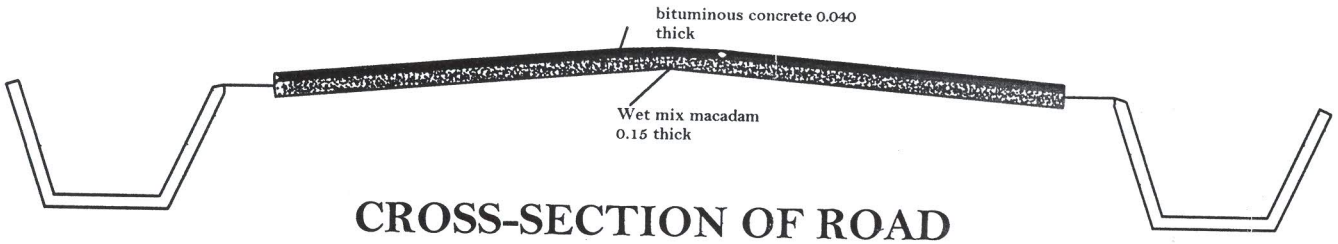
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Road Development and asphalting works at Singapura Paradise road in Kuvempunagar in ward no. 11 (Kuvempunagara), Vidyaranyapura Sub Division.




Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97




# CROSS-SECTION OF ROAD

**INDEX**

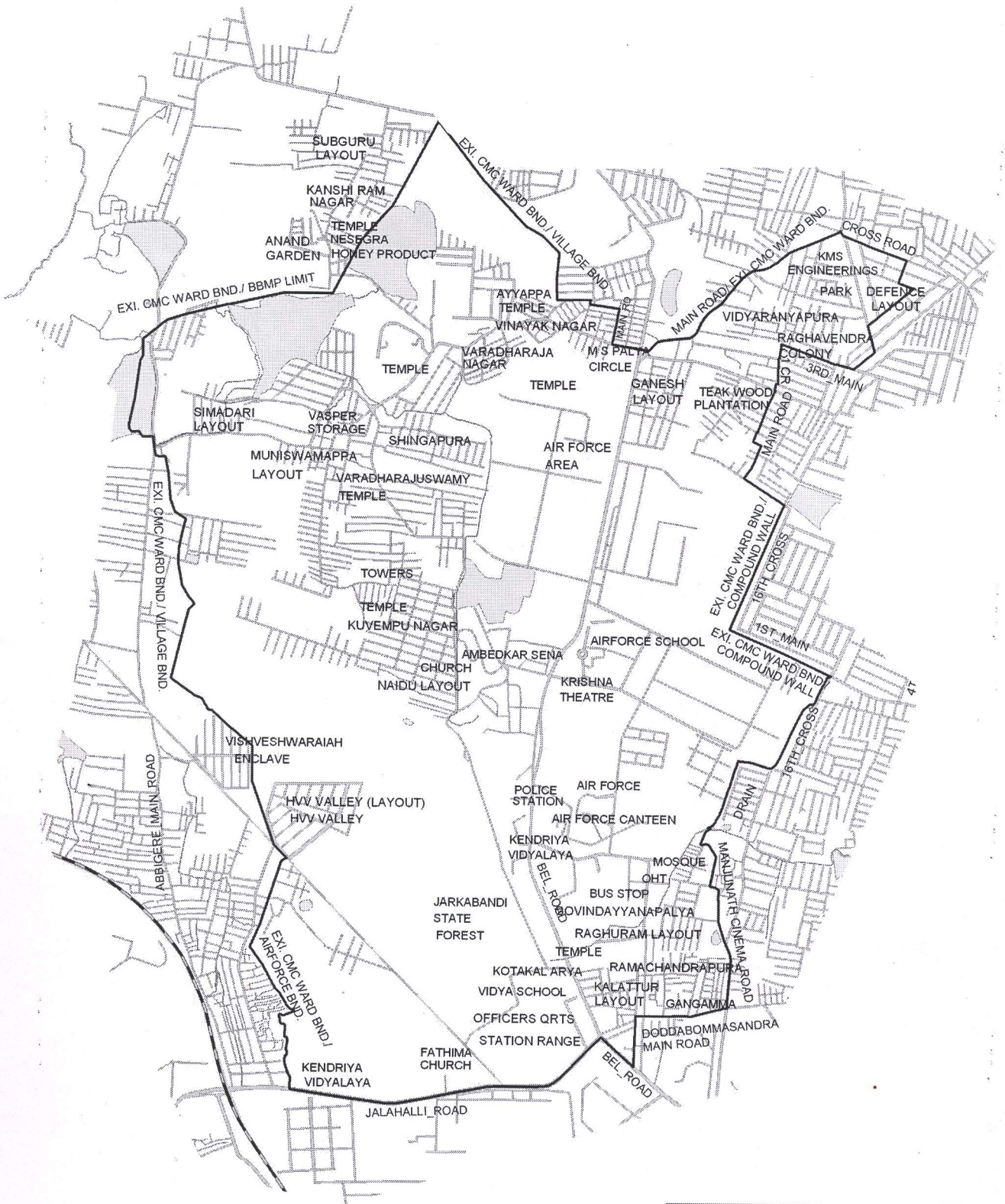
Wet mix macadam

bituminous concrete

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.

# 152 - BYATARAYANAPURA AC
# WARD NAME : 11 - KUVEMPU NAGAR




**INDEX**

- PROPOSED WARD BOUNDARY
- RIVER/ DRAIN
- RAILWAY LINE
- ROAD

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97